

PROGRAM SHEET

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

(BSCS)

Catalog 2010-2012

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❖ SSK 1211	Strategic Learning for University Success (Pre-requisite: Successful completion of	2 SCH	Met □ not Met □
	at least three Language Center level I courses) Information Literacy Skills (Pre-requisite: Successful completion of SSK1211 and		
❖ SSK 1212	all Language Center level II courses except AWT1002)	2 SCH	Met □ not Met □
SSK 1213	Critical Thinking and Analysis (Pre-requisitet: SSK 1212 & ENG1301)	2 SCH	Met □ not Met □
*ARB 1310 or ARB 1320	Arabic for Academic Purposes Arabic for Communication Purposes	3 SCH	Met □ not Met □
*FRN 2310 or FRN 3310	French for Academic Purposes II Advanced French Writing and Speaking Skills	3 SCH	Met □ not Met □
CSC 1401	Computer Programming	4 SCH	Met □ not Met □
COM 1301	Communication Through Speaking (Pre-requisite: ENG 1301)	3 SCH	Met □ not Met □
ENG 1301	English Composition I (Pre-requisite: Pass all Language Center Modules)	3 SCH	Met □ not Met □
ENG 2303	Technical Writing (Pre-requisites: Successful completion of all SSK courses, ENG 1301 and COM 1301)	3 SCH	Met □ not Met □
HIS 1301 or **HIS1302(Arb)or HIS 2301 or PSC 2301	History of the Arab World in English (<i>Pre-requisite: SSK1212</i>) or History of the Arab World in Arabic , (<i>equivalent to HIS 1301</i>), or Contemporary World History (<i>Pre-requisite: ENG 1301</i>) or Comparative Political Systems (<i>Pre-requisite: ENG 1301 & SSK 1213 Pre-or- co requisite</i>)	3 SCH	Met □ not Met □
**HUM 3302 or HUM 3303 or HUM 3301/	Introduction to the Study of Islamic Civilization in English (<i>Pre-requisite: Junior Classification</i>) or Introduction to the Study of Islamic Civilization in Arabic), (<i>Pre-requisite: Junior Classification</i>) or Introduction to Islamic Art & Architecture in		Met □ not Met □
**HUM 3304 LIT2301or	English(Pre-requisite: Junior Classification) Introduction to Islamic Art & Architecture in Arabic Major Works of World Literature (equivalent to ARB 2305/LIT 2305) (Pre-	3 SCH	
**LIT 2304 or LIT 2305	requisite: Sophomore Classification and ENG 1301 & Pre-or- co requisite: SSK 1213),or Introduction to Arabic Literature(equivalent to ARB 2304), or Introduction to World Literature in Arabic (equivalent to ARB 2305/LIT 2301)		
HUM 3305 or HUM 3306 or PHI 2301 or PHI 2302	Science and Society (Pre-requisite: Junior Classification) or Comparative Religion (Pre-requisite: Junior Classification) or Philosophical Thought (Pre-requisite: ENG 1301 & SSK 1213 Pre-or- co requisite), or History of Ideas (Pre-or- co requisite: SSK 1213)	3 SCH	Met □ not Met □
MTH 1303	Differential and Integral Calculus (<i>Pre-requisites: Working knowledge of algebra, trigonometry and analytical geometry</i>).	3 SCH	Met □ not Met □
CHE 1401 or BIO 1401 or	General Chemistry I, or Principles of Biology or	4 SCH	Met □ not Met □
BIO 1402 SOC1301 or SSC1310 or GEO 1301 or	Environmental Biology Introduction to Sociology (<i>Pre-requisite: SSK 1212</i>) or Introduction to Anthropology, (<i>Pre-requisite: SSK 1212</i>) or Introduction to Geography, (<i>Pre-requisite: SSK 1212</i>) or	3 SCH	Met □ not Met □

UNIVERSITY CORE CURRICULUM

PSY 1301 *Notes* :

SSK 1211 & SSK 1212 may be co-requisites for students who finished their LC Level requirements (except AWT 1002) or do not need LC courses (except AWT 1002).

Introduction to Psychology (Pre-requisite: SSK 1212)

(*) Arabic and French language requirements: A total of 6 SCH in these languages is a requirement of the UCC. Students take 0-6 SCH of Arabic and/or 0-6 SCH of French, depending on their background. Students holding a Moroccan baccalaureate or having had Arabic as the language of instruction in high school are not required to take Arabic courses (0 SCH). They fulfill the Arabic language requirement by taking one of the following UCC content courses taught in Arabic: HIS1302, HUM3303, LIT2304, or LIT2305. Language requirement in the UCC should be met by taking French courses depending on the TEF score.

Students who have not had Arabic as the language of instruction in high school are required to successfully complete ARB1320 and any lower level pre-requisite Arabic language courses. A placement test will determine which Arabic courses (such as ARB1309 and ARB1310) are needed. A maximum of 6 SCH in Arabic can be counted as fulfilling the UCC language requirement. Any additional credits will not count towards the degree. All students must also pass the Arabic component of the Exit Exam.

All students are required to satisfy the TEF-B2 level of French, or take the required course(s) to reach the level needed, FRN3310, before graduation. Students will take a placement test which determines the French courses (such as FRN2310) needed to achieve this level of proficiency. A maximum of 6 SCH in French can be counted as fulfilling the UCC requirement. Any additional courses (such as FRN1305 and FRN1308) will not count towards the degree and will be graded on Pass/Fail basis. All students must also pass the French component of the Exit Exam.

(**) **History and Humanities requirement**: Students who take a content course taught in Arabic (HIS1302, HUM3303, HUM3304, LIT2304, or LIT2305) fulfill a History or Humanities requirement of the UCC. They may not take the equivalent course in English (HIS2301, HUM3301, HUM3302) or Arabic (ARB2304, ARB2305) to fulfill another requirement.

SCHOO	36 SCH		
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CSC 2302	Data Structures (Pre-requisites: CSC1401 & Pre or Co-requisites MTH 1304)	3 SCH	Met □ not Met □
CSC 3324	Software Engineering I (Pre-requisites: CSC2302)	3 SCH	Met □ not Met □
CSC 3326	Database Systems (Pre-requisites: CSC3324)	3 SCH	Met □ not Met □
EGR 2302	Engineering Economics (Pre-requisites: MTH1303)	3 SCH	Met □ not Met □
EGR 3331	Digital Design (Co-requisites: PHY1402)	3 SCH	Met □ not Met □
EGR 4300	Internship (Pre-requisites: May be combined with EGR 4402 for 7 SCH.	3 SCH	Met □ not Met □
EGR 4402*	Capstone Design (<i>Pre-requisites</i> : To be taken during the last regular semester of enrollment.	4 SCH	Met □ not Met □
MTH 2301	Multivariable Calculus (Pre-requisites: MTH1303)	3 SCH	Met □ not Met □
MTH 3301	Engineering Probability and Statistics (Pre-requisites: MTH2301 and Junior Standing)	3 SCH	Met □ not Met □
PHY 1401	Physics I (Pre-requisites: MTH1303)	4 SCH	Met □ not Met □
PHY 1402	Physics II (Pre-requisites: PHY1401)	4 SCH	Met □ not Met □
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^{*} May be combined with internship 7 SCH

COMPU	TER SCIENCE MAJOR		33 SCH
Required c	mirses.		24 SCH
MTH1304	Discrete Mathematics for Engineers	3 SCH	Met □ not Met □
MTH 2303	Linear Algebra and Matrix Theory (Pre-requisite: MTH 2301)	3 SCH	Met □ not Met □
CSC 2303	Advanced Programming/Object-Oriented Programming (Pre-requisite: CSC 2302)	3 SCH	Met □ not Met □
CSC 2304	Computer Architecture (Pre-requisite: CSC 2302 and EGR 3331)	3 SCH	Met □ not Met □
CSC 3315	Languages and Compilers (Pre-requisite: CSC 2303)	3 SCH	Met □ not Met □
CSC 3323	Analysis of Algorithm (Pre-requisite: CSC 2303)	3 SCH	Met □ not Met □
CSC 3351	Operating Systems (Pre-requisites: CSC 2303 and CSC 2304)	3 SCH	Met □ not Met □
CSC 3352	Computer Communications (Pre-requisite: CSC 2303 and CSC 2304)	3 SCH	Met □ not Met □
In addition	choose three from the following:		9 SCH
CSC 3309	Artificial Intelligence (Pre-requisites: CSC 2303 and Junior Classification)	3 SCH	Met □ not Met □
CSC 3325	Software Engineering II (Pre-requisite: CSC 3324)	3 SCH	Met □ not Met □
CSC 3327	Internet Technologies (Pre-requisite: CSC 3326)	3 SCH	Met □ not Met □
CSC 3328	Embedded Systems (Pre-requisite: CSC 3351)	3 SCH	Met □ not Met □
CSC 3341	Computer Graphics (Pre-requisite: CSC 2302)	3 SCH	Met □ not Met □
CSC 3353	Computer Networks (Pre-requisite: CSC 3352)	3 SCH	Met □ not Met □
CSC 3354	Distributed Systems (Pre-requisites: CSC 3351 and CSC 3352)	3 SCH	Met □ not Met □
CSC 3355	Computer Security (Pre-requisites: CSC 2303 and Senior Classification)	3 SCH	Met □ not Met □

MINORS	15-19 SCH
GENERAL ENGINEERING Required courses:	17-18 SCH 8 SCH
CHE 1402 General Chemistry II (Pre-requisite: CHE 1401)	4 SCH Met □ not Met □

EGR 2402	Electrical Circuits (Pre-requisite :PHY 1402 & MTH 2304 as pre or co-requisite)	4 SCH	Met □ not Met □
In addition, s		9-10 SCH	
EGR 3304	Materials Science (Pre-requisite :CHE 1402 and PHY 1402)	3 SCH	Met □ not Met □
EGR 3306	Engineering Instrumentation (Pre-requisite: EGR 2402)	3 SCH	Met □ not Met □
EGR 3308	Thermal Engineering (Pre-requisite: PHY 1402)	3 SCH	Met □ not Met □
EGR 3402	Statics and Dynamics (Pre-requisite: MTH 2301 and PHY 1401)	3 SCH	Met □ not Met □
RUSINESS	SADMINISTRATION		15 -16 SCH
Required Co			9 SCH
ACC 2301	Accounting Principles I I (Pre-requisite: MTH 1303, or MTH 1304)	3 SCH	Met □ not Met □
FIN 3301	Business and Corporate Finance (<i>Pre-requisite</i> : ACC 2301 and EGR 2302)	3 SCH	Met □ not Met □
MGT 3301	Principles of Management (Pre-requisite: ACC 2301 and EGR 2302)	3 SCH	Met □ not Met □
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	students must choose two out of the following courses:		6-7 SCH
ACC 2302	Accounting Principles II(Pre-requisite: ACC 2301)	3 SCH	Met □ not Met □
MGT 3303	Operations Management (Pre-requisite: MGT 3301 and either GBU 3401 or MTH 3301)	3 SCH	Met □ not Met □
GBU4308	Net-Economics and E-Business (Pre-requisite: Senior standing)	3 SCH	Met □ not Met □
GBU 3401	Advanced Quantitative Methods in Business(Pre-requisite: junior Standing and GBU 3301; or MTH 3301)	3 SCH	Met □ not Met □
MGT 3302	Entrepreneurship (Pre-requisite: MGT 3301 & MKT 3301 & FIN 3301)	3 SCH	Met □ not Met □
MKT 3301	Principles of Marketing (Pre-requisite: ACC 2301 and EGR 2302)	3 SCH	Met □ not Met □
MKT 4304	IKT 4304 Marketing Research(Pre-requisite: MKT 3301 and one of the following: GBU 3401, SSC 2401, MTH3301)		Met □ not Met □
MIS 3302	Managing the Information Resource(Pre-requisite: MGT 3301 and MIS 3301 or Special Permission)	3 SCH	Met □ not Met □
MKT4305	T4305 Marketing Management (Pre-requisite: MGT 3301 & MKT 3302 or MKT 3303)		Met □ not Met □
MGT 4311	E-Marketing (Pre-requisite : senior standing)	3 SCH	Met □ not Met □
HUMAN F	RESOURCE DEVELOPMENT		18 SCH
Required o	courses:		9 SCH
HRD 2300	Introduction to Human Resources Development	3 SCH	Met □ not Met □
HRD 2301 or HRD 3302 *	Business Environment and Ethics for HRD or Ethics in Professional Contexts (<i>Pre-requisite: Junior Classification</i>)	3 SCH	Met □ not Met □
HRD 3401	Human Capital Management	3 SCH	Met □ not Met □
In addition st	udents must complete any three courses from the list below		9 S C H
HRD 3303	Training & Development (Pre-requisite: HRD2300)	3 SCH	Met □ not Met □
HRD 3304	Strategic HRD (Pre-requisites: HRD 2300 and HRD 3401)	3 SCH	Met □ not Met □
HRD 3305	Issues in the Human and Social Development (Pre-requisites: HRD 2300)	3 SCH	Met □ not Met □
HRD 3399	Special Topics in HRD (Pre-requisite: Junior Classification)	3 SCH	Met □ not Met □
HRD 4301	Program and Project Management (Pre-requisite: HRD 2300)	3 SCH	Met □ not Met □
HRD 4302	Needs Assessment and Org Effectiveness (Pre-requisite: HRD 2300 and 3301)	3 SCH	Met □ not Met □
HRD 4303	Leadership and Management Development (Pre-requisites: PSY 3302 or MGT4304)	3 SCH	Met □ not Met □
HRD 4304	Consulting for HRD(Pre-requisites: HRD 2300 and HRD 3302 or permission of the instructor)	3 SCH	Met □ not Met □
HRD 4305	Human Resources Development in Public Administration(<i>Pre-requisites: HRD 2300 and HRD 3401</i>)	3 SCH	Met □ not Met □
HRD 4306	Organizational Development and Change (Pre-requisites: HRD 2300 and HRD 3401)	3 SCH	Met □ not Met □
COMMI	NICATION STUDIES		18-19 SCH

18-19 SCH

Students selecting the Minor in Communication Studies must complete 18 - 19 SCH from the following courses.

Required courses: **12 SCH**

COM 1302	Introduction to Mass Communication (Pre-requisite: ENG 1301)	3 SCH	Met □ not Met □
COM 2301	Professional Communication(Pre-requisite: COM 1301)	3 SCH	Met □ not Met □

onal Communication (Pre-requisite: COM 1302) ommunication (Pre-requisite: COM 1302)	l I	Met □ not Met □
ommunication (17e-requisite: COM 1502)	3 SCH	Met □ not Met □
	3 SCII	Met 🗆 not Met 🗅
et complete any two of the following courses:		6 -7 SCH
nd Film Production(Pre-requisites: COM1302)	3 SCH	Met □ not Met □
telations (Pre-requisite: Junior classification, COM1302 and COM2301)	3 SCH	Met □ not Met □
onal Communication (<i>Pre-requisite</i> : Junior classification, COM1302 and 01)	3 SCH	Met □ not Met □
nication Theories (Pre-requisite COM 1302)	3 SCH	Met □ not Met □
nd Society (Pre-requisite: Junior classification & COM 1302)	3 SCH	Met □ not Met □
for the Media in English (Pre-requisite: Junior classification, ENG 1301, COM	3 SCH	Met □ not Met □
for the Media in French (Pre-requisite: Junior classification, COM RN 3310 or equivalent)	3 SCH	Met □ not Met □
for the Media in Arabic (Pre-requisite: Junior classification, COM 1302, ARB equivalent)	3 SCH	Met □ not Met □
d Online Production Pre-requisite: COM 1302)	4 SCH	Met □ not Met □
on (Pre-requisite: Junior classification)	3 SCH	Met □ not Met □
edia Text Analysis (Pre-requisite: Junioor classification & COM 2320)	3 SCH	Met □ not Met □
ational Communication (Pre-requisite: Junior classification or COM 2301)	3 SCH	Met □ not Met □
Topics in Communication (Pre-requisite: Junior classification)	3 SCH	Met □ not Met □
Communication (Pre-requisite: Junior Classification and PSC 2301	3 SCH	Met □ not Met □
ic Media Production (Pre-requisite: Junior classification and, COM 2304)	3 SCH	Met □ not Met □
nication and Development (Pre-requisites: Senior Classification)	3 SCH	Met □ not Met □
STUDIES		18 SCH 6 SCH
& Models of International Relations (<i>Pre-requisite : PSC 2301</i>)	3 SCH	Met □ not Met □
rive Political Systems (Pre-requisite: ENG 1301)	3 SCH	Met □ not Met □
		9 SCH
av choose three courses from the following:	3 SCH	Met □ not Met □
ay choose three courses from the following:	3 SCH	Met □ not Met □
	3 SCH	Met □ not Met □
ion to Geography ion to International Economics n Century International History (Pre-requisite: HIS 1301 or HIS 2301 or		Met □ not Met □
ion to Geography ion to International Economics n Century International History (Pre-requisite: HIS 1301 or HIS 2301 or	3 SCH	
ion to Geography ion to International Economics n Century International History (Pre-requisite: HIS 1301 or HIS 2301 or	3 SCH	gree requirement 3 SCH
	International Economics	o International Economics 3 SCH tury International History (Pre-requisite: HIS 1301 or HIS 2301 or 3 SCH aw & Organizations (Pre-requisite: INS 3301) 3 SCH

COM 3301 or Public Relations Communication (Pre-requisite: COM1302, Junior Standing, COM 2301

ELECTIVES	6 SCH	Met □ not Met □
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Two electives will be chosen from university undergraduate courses in collaboration with, and with approval of, the academic advisor and academic coordinator. At least one if the electives must be in mathematics or science. The following courses are not acceptable as BSCSC electives: CHE1400, CSC1400, MTH1388, GBU 3301, MTH1301, and PHY1400. Graduate courses in the major may be taken as electives after special permission from the Dean.

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